

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in this application:

LISTING OF CLAIMS:

Claims 1 to 10. (Canceled)

11. (Currently Amended) A measuring sensor for determining a physical property of a measured gas, comprising:

a sensor element capable of being exposed to the measured gas, the sensor element includes a ceramic element made of solid electrolyte layers, an outer electrode situated on a surface of the ceramic element, and a porous protective lining coating the outer electrode; and

a protective layer at least partially coating the sensor element, the protective layer protecting against a harmful component in the measured gas, the protective layer covering the porous protective lining, wherein the protective layer includes one of highly active γ - aluminum oxide (Al_2O_3) and highly active δ - aluminum oxide (Al_2O_3), the aluminum oxides having additives of one of the alkaline metals group, the alkaline earth group, the IV B subgroup, and the lanthanides group, and wherein a material of the protective lining includes zirconium oxide (ZrO_2) having a small proportion of aluminum oxide (Al_2O_3), and wherein the protective layer has a substantially higher proportion of aluminum oxide than the protective lining.

12. (Previously Presented) The measuring sensor as recited in Claim 11, wherein the measuring sensor is for determining one of an oxygen concentration and a contaminant concentration in an exhaust gas of an internal combustion engine.

13. (Previously Presented) The measuring sensor as recited in Claim 11, wherein the additives are one of oxides, carbonates, acetates, and nitrates of elements of the one of the alkaline metals group, the alkaline earth group, the IV B subgroup, and the lanthanides group.

14. (Previously Presented) The measuring sensor as recited in Claim 11, wherein the protective layer is extremely porous and has a great layer thickness.

15. (Previously Presented) The measuring sensor as recited in Claim 11, wherein a thickness of the protective layer is greater than 250 μm .

Claims 16 to 24. (Canceled).